

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE										ATTY. DOCKET NO. S00-009		SERIAL NO. Not assigned	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)										APPLICANT Juan G. Santiago et al.			
										FILING DATE Filed herewith		GROUP Not assigned	

JES28 U.S. PTO
 10/056944
 01/24/02

U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JS	A	6	2	8	7	4	4	0	9/11/01	Arnold et al.	204	450	6/18/99
	B	2	9	4	9	5	5	0	8/16/60	Thomas T. Brown et al.	310	5	7/3/57
	C	6	0	3	3	5	4	6	3/7/00	Ramsey	204	603	9/15/98
	D	6	0	4	6	0	5	6	4/4/00	Parce et al.	436	514	12/6/96
	E	6	0	8	2	8	9	1	7/4/00	Schubert et al.	366	338	4/17/98
	F	6	0	8	6	2	4	3	7/11/00	Paul et al.	366	273	10/1/98
	G	6	1	5	8	7	1	2	12/12/00	Ctaig	251	61.1	10/16/98
	H	6	1	7	6	9	6	2	1/23/01	Soane et al.	156	292	1/18/97
	I	6	1	7	4	6	7	5	1/16/01	Chow et al.	435	6	8/27/98
	J	6	2	1	0	9	8	6	4/3/01	Arnold et al.	438	42	9/23/99
	K	6	2	1	3	1	5	1	4/10/01	Jacobson et al.	137	827	4/25/00
	L	6	2	2	1	2	2	6	4/24/01	Kopf-Sill	204	602	10/7/99
	M	6	2	3	5	1	7	5	5/22/01	Dubrow et al.	204	453	10/2/98
	N	6	2	3	5	4	7	1	5/22/01	Knapp et al.	435	6	4/3/98
	O	6	2	4	1	3	7	9	6/5/01	Larsen	366	181.5	
	P	6	3	0	6	2	7	3	10/23/01	Wainright et al.	204	454	4/13/99
JS	Q	6	3	3	7	7	4	0	1/8/02	Parce	356	344	8/19/99

FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER							ISSUE DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
JS													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
JS	A	M. H. Oddy et al.; "Electrokinetic instability micromixing;" 'Analytical Chemistry, Vol. 73, No. 24, December 15, 2001, Pg. 5822-5832
	B	J. G. Santiago; "Electroosmotic flows in microchannels with finite inertial and pressure forces;" Analytical Chemistry, Vol. 73, No. 10, May 15, 2001, Pg. 2353-2365
JS	C	Yi-Kuen Lee et al.; "Chaotic mixing in electrokinetically and pressure driven micro flows;" The 14 th IEEE Workshop on MEMS Interlaken, Switzerland, Jan. 2001

93	D	Pavlo Takhistov et al.; "Electrokinetic displacement of air bubbles in microchannels;" January 29, 2001
	E	Jorg P. Kutter; "Current developments in electrophoretic and chromatographic separation methods on microfabricated devices;" trends on analytical chemistry, vol. 19, no. 6, 2000
	F	Robin H. Liu et al.; "Passive mixing in a three-dimensional serpentine microchannel;" JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, VOL. 9. NO. 2, JUNE 2000
	G	Giles Hl Wl Sanders et al.; "Chip-based microsystems for genomic and proteomic analysis;" trends on analytical chemistry, vol. 19, no. 6, 2000
	H	Stephen C. Jacobson; "Microfluidic devices for electrokineticall parallel and serial mixing;" Analytical Chemistry, Vol. 71, No. 20, October 15, 1999, Pg. 4455-4459
	I	M Koch et al.; "Two simple micromixers based on silicon;" J. Micomech. Microeng. 8 (1998) 123-126. Printed in the UK
	J	Dorian Liepmann et al.; "Micro-fluidic mixer;" LIEPMANN D.; EVANS J. D. POLYM. MATER. SCI. ENG. PROC. ACS DIV. POLYM. MATER. SCI. ENG. 1997, 76, PP. 549-550 CITATION
	K	Norbert Schwesinger et al.; "A modular microfluid system with an integrated micromixer;" J. Micomech. Microeng. 6 (1996) 99-102. Printed in the UK
	L	J. Michael Ramsey et al.; "Microfabricated chemical measurement systems;" NATURE MEDICINE, VOLUME 1, NO. 10, OCTOBER 1995
	M	M Elwenspoek; "Towards integrated microliquid handling systems;" J. Micomech. Microeng. 4 (1994) 227-245. Printed in the UK
	N	J. M. Schneider et al.; "Electrohydrodynamic stability of space-charge-limited currents in dielectric liquids. I. Theoretical study;" THE PHYSICS OF FLUIDS, VOLUME 13, NUMBER 8, AUGUST 1970
93	O	J. R. Melcher et al.; "Electrohydrodynamics: a review of the role of interfacial shear stresses;" MELCHER. J. R. :TAYLER, G. I. ANNU. REV. FLUID MECH. 1969, I. 111-146

EXAMINER


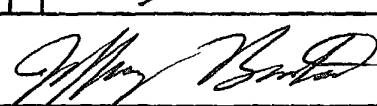
[Signature]

DATE CONSIDERED

7/2/04

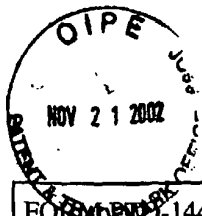
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

10/05/94
01/24/02

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE MAR 12 2002 RECEIVED OFFICE				ATTY. DOCKET NO. S00-009		SERIAL NO. 10/056,944	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Juan G. Santiago et al.			
				FILING DATE 1/24/2002		GROUP Not assigned.	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A						
	B						
	C						
	D						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	ISSUE DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A	Emilij K. Zholkovskij et al.; "Electrokinetic instability of solution in a plane-parallel electrochemical cell;" JOURNAL OF COLLOID AND INTERFACE SCIENCE 181, 28-33 (1996)					
	B	Kurt Seller et al.; "Electroosmotic pumping and valveless control of fluid flow within a manifold of capillaries on a glass chip;" ANAL. CHEM. VOL. 66, NO. 20, OCTOBER 15, 1994, 3485-3491					
	C	  					
	D						
EXAMINER 				DATE CONSIDERED 7/2/04			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>JS</i>							
A							
B							
C							
D							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	ISSUE DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JS</i>	A	Jonathan Knight, "Honey, I shrunk the lab," NATURE/VOL 418 1 AUGUST 2002, PP 474-475.					
	B						
	C						
	D						
EXAMINER <i>[Signature]</i>				DATE CONSIDERED 7/2/04			
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